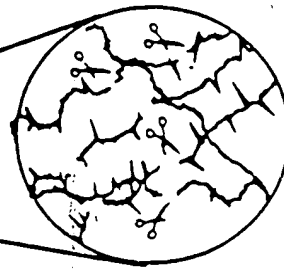
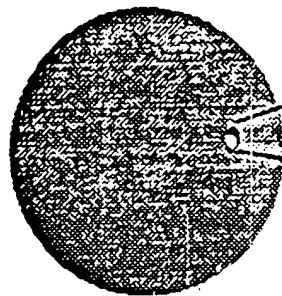


PLGA Microsphere
(Hydrated)



γ = water

Bulk Erosion
(Water, Temperature, Time)

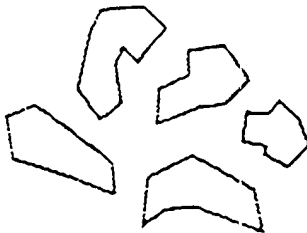


Figure 1

650340 663433

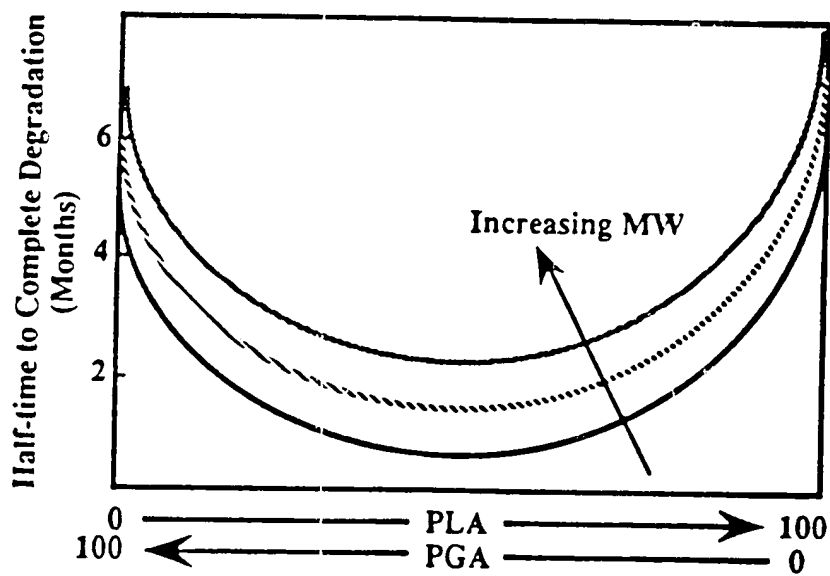


Figure 2

```
graph TD; A[Protein Solution  
volume  
concentration  
Polymer Solution  
MeCl2 volume  
polymer weight  
polymer MW] --> B[Homogenization  
speed  
time  
temperature]; B --> C[Emulsification  
Conditions  
speed  
time]; C --> D[Emulsification Solution  
PVA weight %  
water volume  
MeCl2 volume  
temperature]; D --> E[Hardening Bath  
volume  
time]; E --> F[Diafiltration  
wash volume  
wash medium]; F --> G[Drying  
Lyophilization]; G --> H[Release Studies];
```

The flowchart illustrates the sequential steps for preparing a protein-polymer conjugate for release studies. The process begins with the preparation of a **Protein Solution** (volume, concentration) and a **Polymer Solution** (MeCl₂ volume, polymer weight, polymer MW). These are combined and subjected to **Homogenization** (speed, time, temperature). The resulting mixture is then processed through **Emulsification** (Conditions: speed, time) to create an **Emulsification Solution** (PVA weight %, water volume, MeCl₂ volume, temperature). This solution is then placed in a **Hardening Bath** (volume, time). The hardened material is then subjected to **Diafiltration** (wash volume, wash medium). The final product is then **Dried** (Lyophilization) and used for **Release Studies**.

Figure 3

260510 22531830

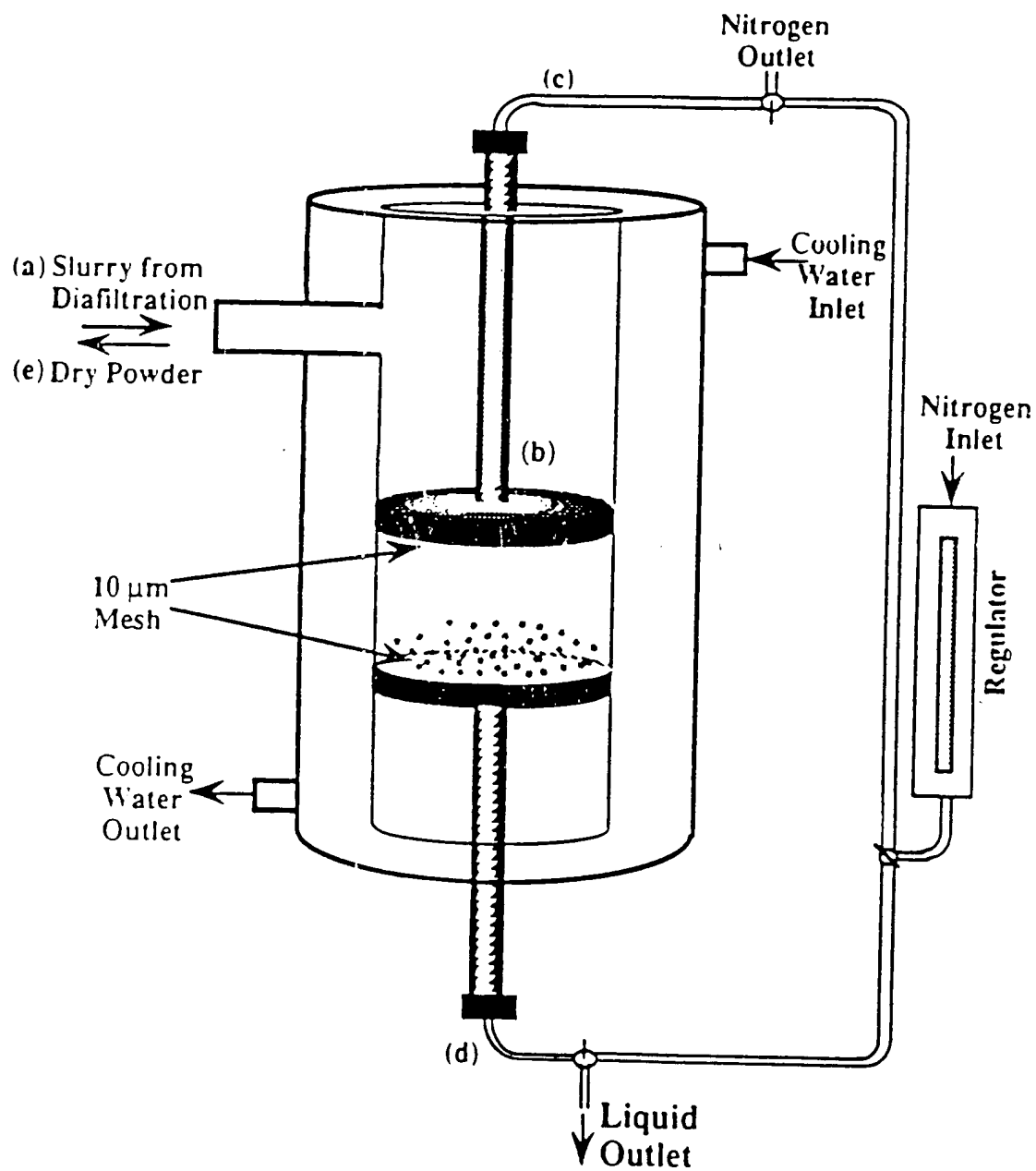


Figure 4

Best Available Copy



Figure 5

00046933-043007

Best Available Copy



Figure 6

09045933 043097

Best Available Copy

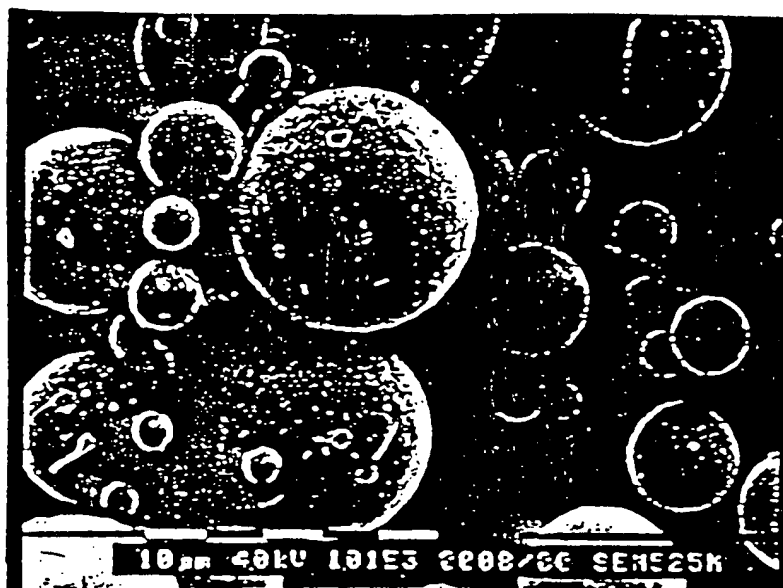


Figure 7

00015933 043097

250670' 22631800

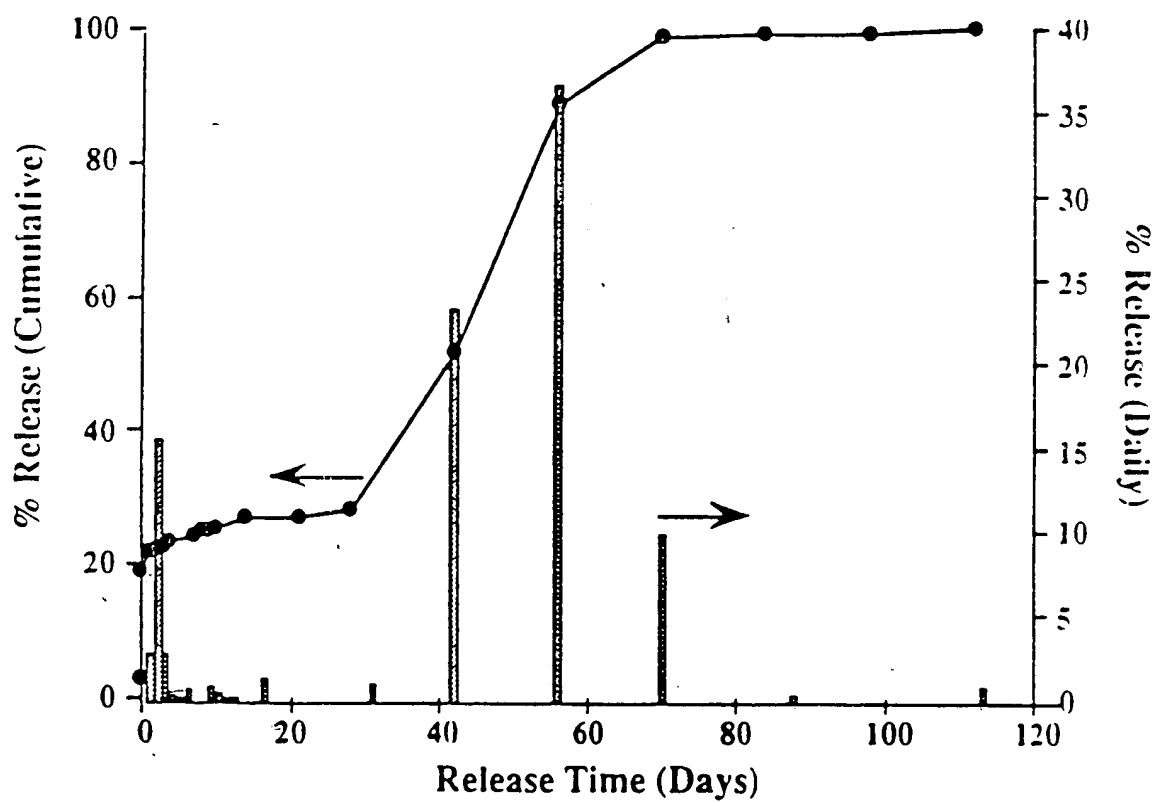


Figure 8

463410 869180

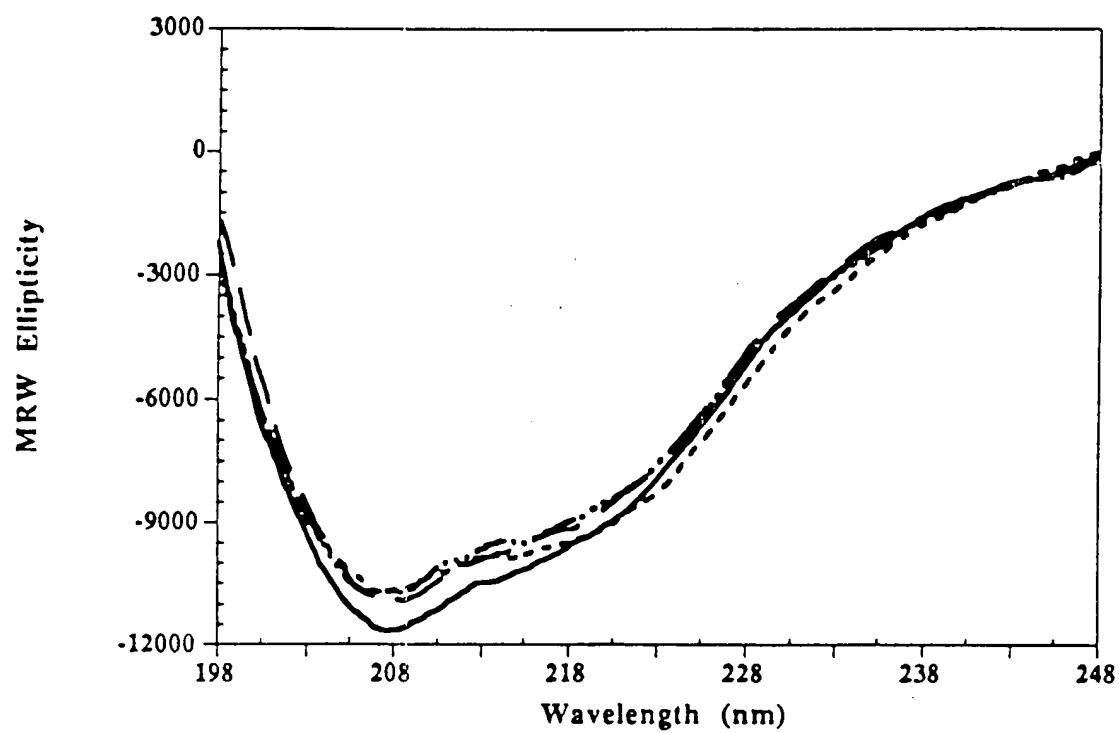


Figure 9a

250610 663430

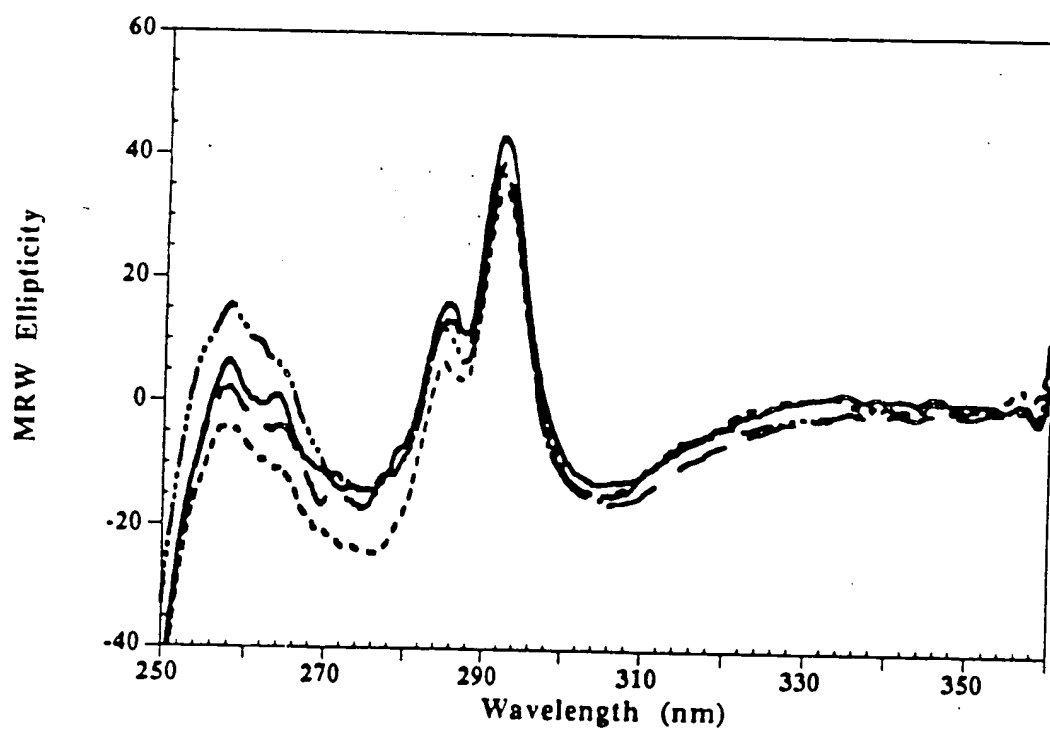


Figure 9b

250240 22591300

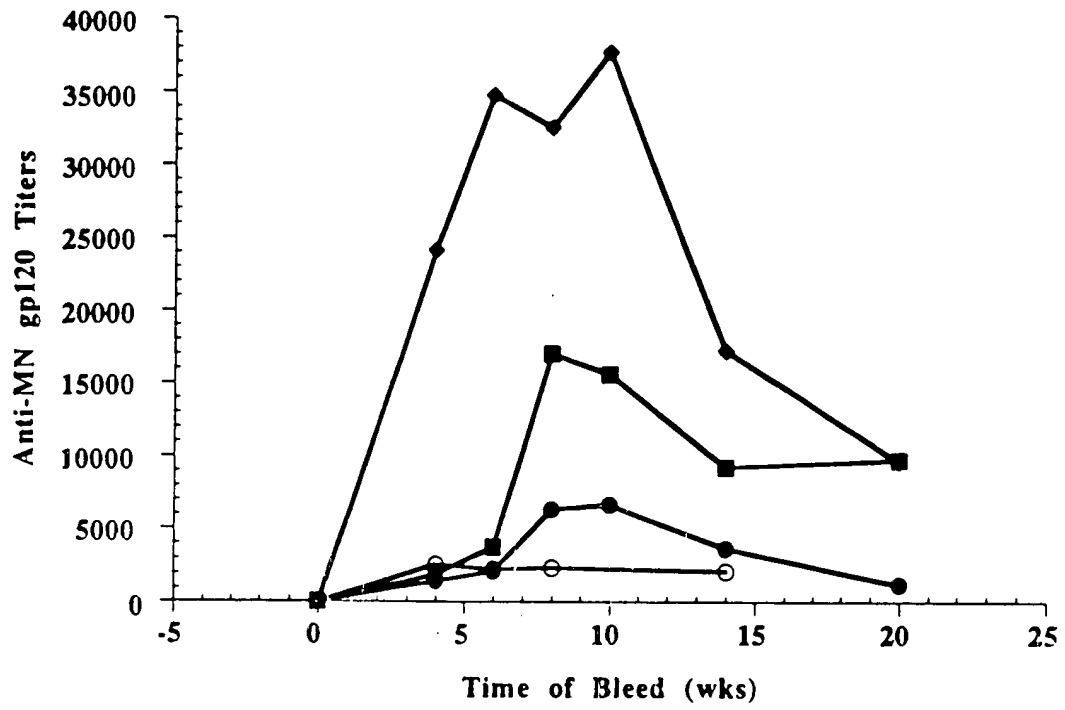


Figure 10

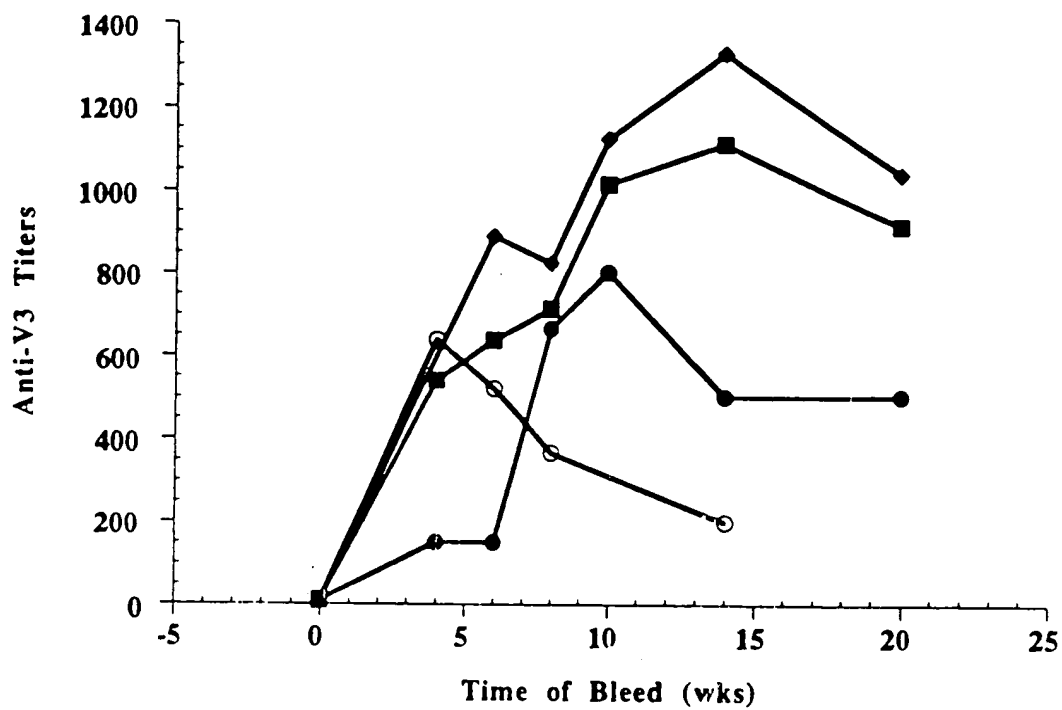


Figure 11

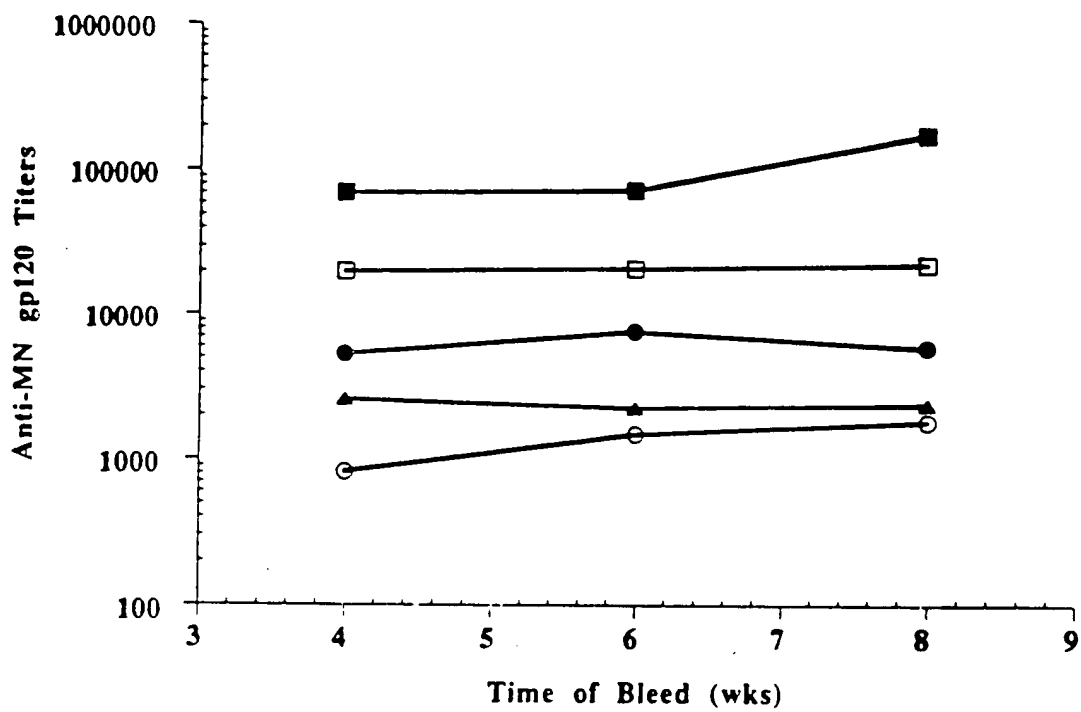


Figure 12

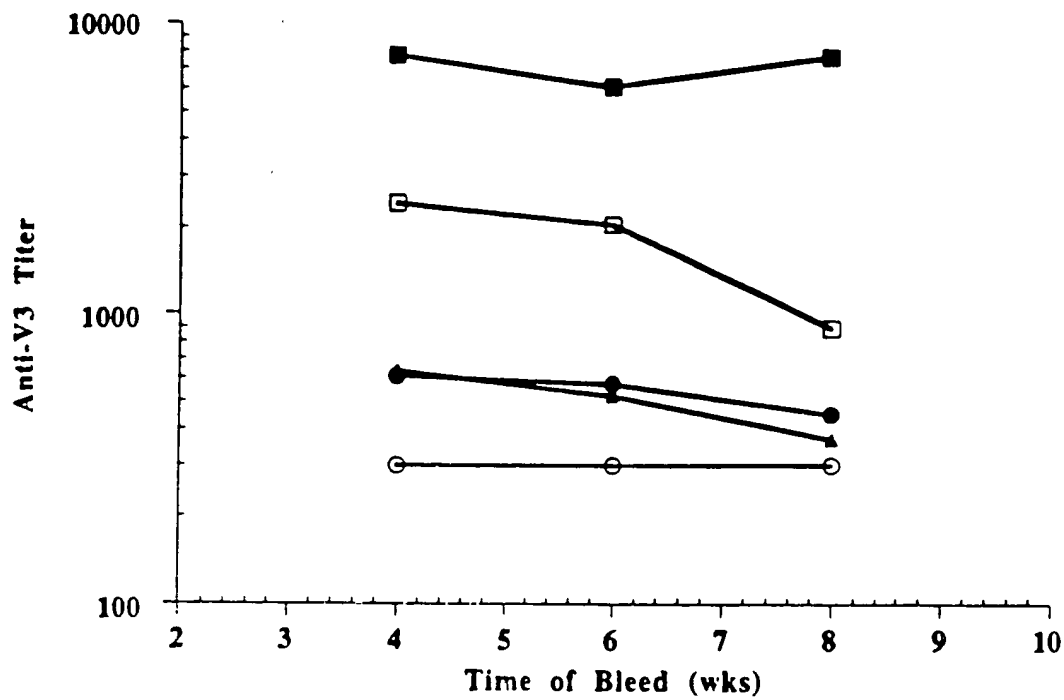


Figure 13